

**REAL TIME DATA CONVERSION FOR A DIGITAL DISPLAY****ABSTRACT**

[0084] A system and method for extracting and manipulating image data is provided. A pixel panel is rotated so as to increase a resolution of a projected image. The rotation may be calculated so as to achieve a desired resolution. A portion of the image is retrieved from a memory and an address is calculated for either the portion or discrete bits in order to determine where the bits should appear on the pixel panel. The manipulated bits are transferred to a buffer, which may be a line or frame buffer, and from the buffer to the pixel panel. One or more shift registers may be used to shift the bits into the buffer.

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